

**WHAT IS CLAIMED IS:**

1. An optical substrate, comprising:

a light transmitting layer having a plurality of color recesses on one side and a plurality of lenses on another side, wherein the lenses are aligned with the color recesses; and

a color pattern layer comprised of pigment disposed in the color recesses.

2. The optical substrate of claim 1, further comprising:

a second light transmitting layer formed on the light transmitting layer and having a plurality of light blocking recesses; and

a light blocking layer comprised of light blocking material disposed in the light blocking recesses.

3. The optical substrate of claim 1, further comprising:

a second light transmitting layer formed on the light transmitting layer; and

a light blocking layer formed on the second light transmitting layer.

4. An optical substrate, comprising:

a light transmitting layer having a plurality of lenses formed on one side; and

a color pattern layer formed on another side of the light transmitting layer.

5. The optical substrate of claim 4, further comprising:

a second light transmitting layer formed on the light transmitting layer and having a plurality of light blocking recesses; and

a light blocking layer comprised of light blocking material disposed in the light blocking recesses.

6. The optical substrate of claim 4, further comprising:

a second light transmitting layer formed on the light transmitting layer;  
and

a light blocking layer formed on the second light transmitting layer.

7. The optical substrate of claim 2, wherein the light blocking layer is formed to enclose the lenses.

8. The optical substrate of claim 3, wherein the light blocking layer is formed to enclose the lenses.

9. The optical substrate of claim 5, wherein the light blocking layer is formed to enclose the lenses.

10. The optical substrate of claim 6, wherein the light blocking layer is formed to enclose the lenses.

11. A display device, comprising:

an optical substrate comprising

a light transmitting layer having a plurality of color recesses on one side and a plurality of lenses on another side, wherein the lenses are aligned with the color recesses, and

a color pattern layer comprised of pigment disposed in the color recesses; and

a light source for emitting light to the optical substrate.

12. A display device of claim 11, wherein the optical substrate further comprises:

a second light transmitting layer formed on the light transmitting layer and having a plurality of light blocking recesses, and

a light blocking layer comprised of light blocking material disposed in the light blocking recesses.

13. A display device of claim 11, wherein the optical substrate further comprises:

a second light transmitting layer formed on the light transmitting layer, and

a light blocking layer formed on the second light transmitting layer.

14. A display device, comprising:

an optical substrate comprising

a light transmitting layer having a plurality of lenses formed on one side, and

a color pattern layer formed on another side of the light transmitting layer; and

a light source for emitting light to the optical substrate.

15. A display device of claim 14, wherein the optical substrate further comprises:

a second light transmitting layer formed on the light transmitting layer and having a plurality of light blocking recesses, and

a light blocking layer comprised of light blocking material disposed in the light blocking recesses.

16. A display device of claim 14, wherein the optical substrate further comprises:

a second light transmitting layer formed on the light transmitting layer, and

a light blocking layer formed on the second light transmitting layer.